| Index of | Claims |
|----------|--------|
|          |        |

| Application No. | Applicant(s)       |       |
|-----------------|--------------------|-------|
| 09/961,391      | CARSTENSEN, KENNET | ΓH J. |
| Examiner        | Art Unit           |       |
| Ryan M Flandro  | 3679               |       |

| 7 | Rejected |
|---|----------|
| Ш | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

|              |          | Щ      | L.      | •            |  |              | J            |                    | Щ.   | Щ.       |       |       |          |  |                |  |  | J           | 느        | L  |
|--------------|----------|--------|---------|--------------|--|--------------|--------------|--------------------|--|----------|-------|-------|----------|--|----------------|--|--|-------------|----------|----|
| Cla          | im       | _      |         |              |  | 201          |              |                    |  |          | 1000  | Cla   |          |  | -              |  |  | <b>7</b> -4 |          |    |
| Cla          | 11111    | -      |         | _            | _  | Date         | <u> </u>     | -                  | т-   | _        |       | Cla   | aim<br>  | ├-   |                | _  |  | Dat         | =        | _  |
| -            | Original | 2      | 8       | 8            | 8  | \$           |              | ĺ                  | ĺ  |          |       | =     | la l     |  |                |  | ļ  |             | l        |    |
| Finat        | اقِ:     | 8/6/02 | 9/19/02 | 12/23/03     | 7/15/04  | 12/13/04     |              |                    |  |          |       | Final | Original |  | ĺ              |  | 1  |             | l        | l  |
| ۳.           | ŏ        | œ      | 9       | 12           | 7  | 12           |              |                    |  |          |       | ш     | ŏ        |  |                |  | 1  |             | 1        | l  |
|              | 1        | +      | 1       | 1            | 1  | ┰            | ⊢            | ┝                  | ┢  | ┢        |       |       | 51       | ⊢  | -              | <del> </del>                                     | ⊢  | -           | ⊢        | ╀  |
| -            | 2        | +      | 1       | 1            | V  | =            | ⊢            | ├                  | ⊢  | ⊢        |       |       | 52       | ├  | ├-             | -  | ┢  | ┢           | ├-       | ╀╌ |
| <del> </del> | 3        | +      | Ň       | N            | N  | 7            | -            |                    | ├─   | ├        |       |       | 53       | ⊢  | -              | ⊢  | ⊢  | ┢           | ⊢        | ╀  |
|              | 4        | +      | N       | N            | N  | 7            |              | $\vdash$           | ├  | ⊢        |       |       | 54       | ⊢  | -              | ⊢  | ⊢  | ⊢           | ⊢        | ╁  |
|              | 5        | +      | 7       | 1            | 1  | =            |              | ┢                  | -  | ┝        |       |       | 55       | -  | -              | -  | ├  | ├           | ⊢        | ╁  |
| -            | 6        | +      | Ņ       | Ņ            | N  | =            | $\vdash$     | ┝╌                 | $\vdash$   | $\vdash$ |       |       | 56       | H  | ┢              | -  | -  |             | ┢        | ╁  |
|              | 7        | +      | N       | N            | N  | 6            | -            | ┢                  | ╁  | -        |       |       | 57       | $\vdash$   | ┢              | $\vdash$   | -  | -           | ┢        | ╁  |
| _            |          | +      | N       | .N           | N  | 6            | -            | ┢                  | -  |          |       |       | 58       | $\vdash$   | ┝              | $\vdash$   | ┢  | -           | ┢        | ╁  |
| -            | 8        | +      | N       | N            | N  | Ť            | -            | <del> </del>       |  |          | . 1   |       | 59       | <del> </del>                                     | -              | $\vdash$   | ╁  | $\vdash$    | $\vdash$ | t  |
|              | 10       | +      | N       | N            | N  | ┰            | ┢            | $\vdash$           |  | $\vdash$ |       |       | 60       | <del>                                     </del> |                | -  | <del>                                     </del> |             | ┢        | H  |
| $\vdash$     | 11       | +      | N       | N            | N  | 1            | $\vdash$     | _                  | -  | $\vdash$ |       |       | 61       | ├─   | <del> </del> - |  | <del>                                     </del> | $\vdash$    | ├─       | H  |
|              | 12       | +      | N       | N            | N  | V            | -            | -                  |  | -        | . 1   |       | 62       | ┢╌   | ┢              |  | $\vdash$   | $\vdash$    | ┢        | t  |
|              | 13       | +      | N       | ·N           | N  | Ì            | $\vdash$     | _                  | $\vdash$   | $\vdash$ |       |       | 63       | $\vdash$   | ┢─             |  | H  | $\vdash$    | ┢        | H  |
| <b>—</b>     | 14       | +      | N       | N            | N  | 0            | $\vdash$     | $\vdash$           | ┢  | $\vdash$ |       |       | 64       | $\vdash$   | ┢              | <del>                                     </del> | $\vdash$   |             | ┢        | H  |
|              | 15       | +      | 1       | .√           | 1  | =            |              | <u> </u>           | ┢  | H        |       |       | 65       | $\vdash$   | $\vdash$       | ┢╾   | -  | ┢─          | ┢        | H  |
|              | 16       | ┰      | N       | N            | N  | V            |              |                    | ┢╌   | $\vdash$ |       |       | 66       | $\vdash$   | -              | -  |  | ┢═          | ⊢        | t  |
|              | 17       | ┰      | N       | N            | N  | 7            |              | $\vdash$           | <del>                                     </del> | $\vdash$ |       |       | 67       | H  | $\vdash$       | ┢╾   | _  | ┢           | ⊢        | H  |
|              | 18       | +      | 1       | 1            | =  | 0            | $\vdash$     | ┢                  | ┢  | H        |       |       | 68       | $\vdash$   | ┢═             | <b></b>  | <del>                                     </del> | <u> </u>    | $\vdash$ | t  |
|              | 19       | +      | N       | N            | N  | ō            |              | $\vdash$           | H  | H        |       |       | 69       |  | $\vdash$       | -  | <del> </del>                                     | $\vdash$    | $\vdash$ | t  |
|              | 20       | +      | N       | N            | N  | N            |              |                    | ┢  | H        |       |       | 69<br>70 |  | $\vdash$       | $\vdash$   | <del>                                     </del> | 一           | Н        | t  |
|              | 21       | +      | N       | N            | N  | N            |              | <u> </u>           | ┰  | Т        |       |       | 71       |  |                | -  | -  | ┢           | $\vdash$ | t  |
|              | 22       | +      | N       | N            | N  | N            |              | _                  | <del>                                     </del> | $\vdash$ | a' .  |       | 72       |  |                | H  | ┢  | ┢           | $\vdash$ | t  |
|              | 23       | +      | N       | N            | N  | N            | -            | _                  | T  | $\vdash$ | - 0   |       | 73       |  |                | -  | ┢  | $\vdash$    | $\vdash$ | t  |
|              | 24       | +      | N       | ,N           | N  | N            | $\vdash$     |                    | <u> </u>   | $\vdash$ |       |       | 74       |  |                |  | _  | $\vdash$    | <u> </u> | t  |
|              | 25       | +      | N       | N            | N  | N            | $\vdash$     |                    |  | Г        |       |       | 75       | -  |                |  | T  | _           | $\vdash$ | t  |
|              | 26       | +      | N       | ·N           | N  | N            | _            |                    | Г  |          |       |       | 76       |  | _              | $\vdash$   |  |             |          | T  |
|              | 27       | +      | N       | N            | N  | N            | Г            |                    |  |          | 5     |       | 77       | Г  |                |  |  |             | Г        | T  |
|              | 28       | +      | 1       | 1            | N  | =            |              |                    |  |          |       |       | 78       |  |                |  | _  |             |          | T  |
|              | 29       | +      | 1       | =            | =  | =            |              | Г                  | Г  |          | lì    |       | 79       |  |                |  |  |             | Г        | Τ  |
|              | 30       | +      | 1       | =            | =  | =            |              |                    |  |          |       |       | 80       |  |                |  |  |             |          | Τ  |
|              | 31       |        |         |              |  |              |              |                    |  |          |       |       | 81       |  |                |  |  |             |          | Τ  |
|              | 32       |        |         | :            |  |              |              |                    |  |          |       |       | 82       |  |                |  |  |             |          | Γ  |
|              | 33       |        |         | :            |  |              |              |                    |  |          |       |       | 83       |  |                |  |  |             |          | Г  |
|              | 34       |        |         |              |  |              |              |                    |  |          |       |       | 84       |  |                |  |  |             |          | Γ  |
|              | 35       |        |         |              |  |              |              |                    |  |          |       |       | 85       |  |                |  |  | Г           |          | Γ  |
|              | 36       |        |         |              |  |              |              |                    |  |          |       |       | 86       |  |                |  |  |             |          | Γ  |
|              | 37       |        |         |              |  |              |              |                    |  |          |       |       | 87       |  |                |  |  |             |          | Γ  |
|              | 38       |        |         |              |  |              |              |                    |  |          |       |       | 88       |  |                |  |  | L           |          |    |
|              | 39       |        |         |              |  |              |              |                    |  |          |       | _     | 89       |  |                |  |  |             |          |    |
|              | 40       |        |         |              |  |              |              |                    | L  |          |       |       | 90       |  |                |  |  |             |          |    |
|              | 41       |        |         |              |  |              |              |                    |  |          |       |       | 91       |  |                |  |  |             |          | L  |
|              | 42       |        |         |              |  |              |              |                    |  |          |       |       | 92       |  |                |  |  |             |          | L  |
|              | 43       |        |         | Ľ            |  | $oxed{oxed}$ | $oxed{oxed}$ | L_                 | L_   |          |       |       | 93       |  |                |  |  |             | 匚        | Ĺ  |
|              | 44       |        |         |              |  |              | L            | $oxedsymbol{oxed}$ | 匚  |          |       |       | 94       |  |                | <u>L</u>   | L  |             | 匚        | Ĺ  |
|              | 45       |        |         | Ľ            |  |              |              | $oxedsymbol{oxed}$ | $oxedsymbol{oxed}$                               |          |       |       | 95       |  |                | L  |  |             | Ĺ        | Ĺ  |
|              | 46       | L.,    | _       | $oxed{oxed}$ | Ш  |              | L.           | L                  | L_   | Ш        |       |       | 96       | Ш  |                | L.   | <u> </u>   | _           | <u>L</u> | L  |
|              | 47       | L.,    | Ш       | Ŀ            | $ldsymbol{ld}}}}}}$ |              | L            | L                  | <u> </u>   | Ш        |       |       | 97       | Ш  |                |  | <u>L</u>   |             | <u>L</u> | L  |
|              | 48       |        |         | L            |  |              | L            | L                  |  |          |       |       | 98       |  |                |  |  | L           | Ĺ        | Ĺ  |
|              | 49       |        |         | Ŀ            |  |              | <u> </u>     | Ш                  | _  | Ш        |       |       | 99       | Ш  |                |  | <u> </u>   | <u> </u>    | L        | L  |
| L            | 50       |        | L       | <u> </u>     |  |              | L            |                    |  |          | l . l |       | 100      |  | L              |  |  |             | <u> </u> | L  |
|              |          |        |         |              |  |              |              |                    |  |          |       |       |          |  |                |  |  |             |          |    |

|      | Cla      | aim            | · ·  |   |  | - [          | Date     | €        |                                     |  |          |
|------|----------|----------------|--|---|--|--------------|----------|----------|-------------------------------------|--|----------|
|      |          |                |  |   |  |              |          |          |                                     | Γ  |          |
|      | <u>a</u> | ≘              |  |   |  |              |          |          |                                     |  |          |
|      | Final    | Original       |  |   |  |              |          |          |                                     |  |          |
|      |          | 0              |  |   |  | i            |          |          |                                     |  |          |
| 4    |          | 51             |  | Ι-  | T  | T            |          | $\vdash$ | i –                                 | <del>                                     </del> | $\vdash$ |
|      |          | 52             |  |   |  | H            |          | -        | -                                   | 1  | $\vdash$ |
|      | _        | 52<br>53       | ┢  |   | $\vdash$   |              |          | $\vdash$ | ┢                                   | -  | $\vdash$ |
|      |          | 54             | -  | _   | _  | $\vdash$     | $\vdash$ | $\vdash$ | ┢                                   |  | $\vdash$ |
|      |          | 54<br>55       | -  | -   | _  | $\vdash$     | $\vdash$ | $\vdash$ | ┢                                   |  | H        |
|      |          | 56             | $\vdash$   | $\vdash$  | _  | $\vdash$     |          |          | $\vdash$                            | ┢  | ┝╌       |
|      |          | 57             | $\vdash$   | $\vdash$  | $\vdash$   | <del> </del> |          | -        | H                                   | $\vdash$   |          |
|      |          | 57<br>58       | $\vdash$   | $\vdash$  | <del>                                     </del> | Ι            | -        | -        | ┢                                   | H  | Н        |
|      |          | 59             | ┢  | <u> </u>  | H  | H            | H        | H        | ┢                                   | -  | Н        |
|      |          | 60             | $\vdash$   | _   | ┢  |              | $\vdash$ | -        | H                                   | ┢╌   | -        |
|      |          | 61             | $\vdash$   | ┰   | $\vdash$   |              | $\vdash$ |          | ┢─                                  | H  | H        |
|      |          | 62             | <del>                                     </del> | $\vdash$  | $\vdash$   | $\vdash$     | $\vdash$ | $\vdash$ | 1                                   | <del>                                     </del> | H        |
| . 3  |          | 63             | $\vdash$   | ┢─  | <del>                                     </del> | $\vdash$     | Н        | $\vdash$ | $\vdash$                            | ┢┈   | H        |
|      |          | 64             |  | $\vdash$  | 1  | $\vdash$     |          |          | $\vdash$                            | Ι  | Н        |
|      |          | 65             | $\vdash$   | <del> </del>  | 1  | -            | $\vdash$ | $\vdash$ | $\vdash$                            | $\vdash$   | Н        |
|      |          | 66             | $\vdash$   | -   | -  |              | _        | $\vdash$ | $\vdash$                            | ┢─   | Н        |
|      |          | 67             | H  | $\vdash$  | -  |              | _        | ⊢        | $\vdash$                            | ┝  | Н        |
|      |          | 68             | $\vdash$   | ┝   | -  |              | -        | $\vdash$ | H                                   |  | Н        |
| 1    |          | 68<br>69       | $\vdash$   | ⊢   | -  |              | $\vdash$ |          | ⊢                                   | ┝  | Н        |
|      |          | 70             |  | $\vdash$  | ┢  | _            | _        |          | ⊢                                   | $\vdash$   | Н        |
|      |          | 70<br>71       |  | _   | -  |              | _        | _        | _                                   | ├  | Н        |
| - 31 |          | 72             |  | _   | ├  |              | Н        | _        | <u> </u>                            | ├  | H        |
|      |          | 72             |  |   | -  | -            | -        | _        | H                                   | <u> </u>   | Н        |
|      |          | 73<br>74<br>75 | $\vdash$   | _   | -  |              | H        |          | H                                   | -  | Н        |
|      |          | 75             |  | -   | $\vdash$   | _            |          |          | H                                   | $\vdash$   | -        |
|      |          | 76             |  | _   | ┝  | _            | -        |          |                                     |  | Н        |
|      |          | 76<br>77       | $\vdash$   |   |  | -            |          | _        | ├                                   |  |          |
|      |          | 78             | $\vdash$   | _   | ⊢  |              |          | _        | ├-                                  |  | Н        |
|      |          | 79             |  |   | $\vdash$   | _            |          |          | -                                   |  | Н        |
|      |          | 80             | -  |   | H  | _            | -        |          | $\vdash$                            |  | Н        |
|      |          | 80             | H  |   | _  | _            |          | _        |                                     | _  | Н        |
|      |          | 81<br>82<br>83 | <u> </u>   |   | H  |              | _        |          | -                                   | _  | $\vdash$ |
|      |          | 02             | H  | _   |  |              |          | _        |                                     | -  | Н        |
|      |          | 03             | H  | _   | -  | _            |          | <u> </u> |                                     |  | Н        |
|      |          | 84<br>85       |  |   | <u> </u>   |              | _        | _        | _                                   | _  |          |
| . 1  |          | 85             |  |   | <u> </u>   |              |          |          | -                                   | _  | Н        |
|      |          | 86             | _  | _   |  | _            |          | -        | _                                   |  |          |
|      | -        | 87             |  |   | <u> </u>   | $\vdash$     | _        | _        | _                                   |  | Н        |
|      |          | 88             | _  |   | <u> </u>   | _            | <u> </u> | _        | _                                   |  | Щ        |
|      |          | 89             |  |   | -  | Н            | $\vdash$ | _        | _                                   | _  | Н        |
| 1    |          | 90             | _  | <u> </u>  | -  | _            |          | _        | $\vdash$                            | L  | Н        |
|      |          | 91             | _  | <u> </u>  | -  |              | _        |          | $\vdash$                            | <u> </u>   | Щ        |
|      |          | 92             | Ш  | $\vdash$  | $\vdash$   |              | <u> </u> | <u> </u> | $\vdash$                            | <u> </u>   | Ш        |
|      |          | 93             |  | <u> </u>  | <u> </u>   | L.           | Ь.,      | Щ.       | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | _  | $\sqcup$ |
| 1    |          | 94             |  | Щ   | L.,  | <u> </u>     |          | L        | _                                   | L  | Ш        |
|      |          | 95             | L  | $ldsymbol{le}}}}}}$ | L-   | _            | _        | Щ        | <u> </u>                            |  | Ш        |
|      |          | 96             |  |   | L.,  | L.,          | Щ        |          | <u> </u>                            | Ш  | Ш        |
|      |          | 97             | Щ  |   |  | L.,          | L_,      | L_       | <u> </u>                            |  | Ш        |
|      |          | 98             |  |   |  |              | L        |          | L.,                                 |  | Ш        |
| ١    |          | 99             |  |   |  | _            |          | L.       | <u> </u>                            |  | Ш        |
| . 1  |          | 100            |  |   |  |              |          |          |                                     |  |          |

|                      | ı          | Щ.       | ٠.       |          |          |                                |          |  | ,        |                        |  |
|----------------------|------------|----------|----------|----------|----------|--------------------------------|----------|--|----------|------------------------|--|
| Cla                  | aim        | Date     |          |          |          |                                |          |  |          |                        |  |
| Final                | Original   |          |          |          |          |                                |          |  |          |                        |  |
|                      | 101        |          |          |          |          |                                |          |  |          |                        |  |
|                      | 102        |          |          |          |          |                                |          |  |          |                        |  |
|                      | 103        |          |          |          | <u> </u> | _                              |          | 匚  | L_       | Ш                      |  |
| -                    | 104        | _        | _        | _        | ļ        | <u> </u>                       | L        | ┡  | <u> </u> | Ш                      |  |
|                      | 105<br>106 | ├—       | ├        | ┝        | <u> </u> | ├                              | ┝        | $\vdash$   | $\vdash$ |                        |  |
|                      | 107        |          | -        |          | ├        | ├─                             | ⊢        | $\vdash$   | Н        | Н                      |  |
|                      | 108        | -        |          | -        | -        | ┢                              |          | -  |          | Н                      |  |
|                      | 109        | T        |          |          |          |                                |          |  |          |                        |  |
|                      | 110        |          |          |          |          |                                |          |  |          |                        |  |
|                      | 111        | 匚        |          |          |          |                                |          |  |          |                        |  |
| $\square$            | 112        | $\vdash$ | _        | L_       | _        | L                              | ļ        | <u> </u>   |          | Щ                      |  |
| <u> </u>             | 113        | $\vdash$ | _        | <u> </u> | <u> </u> | <u> </u>                       | <u> </u> | <u> </u>   | $\vdash$ | Щ                      |  |
| $\vdash\vdash$       | 114<br>115 | $\vdash$ | -        | H        | <u> </u> | <u> </u>                       | ├        | ⊢  | H        | $\dashv$               |  |
| $\vdash$             | 116        | $\vdash$ | -        | H        | -        | ┝                              | -        | ├  | H        | $\vdash \vdash$        |  |
| $\vdash$             | 117        | -        | ┝        | Н        |          | -                              | -        | ┢─   | H        |                        |  |
|                      | 118        | -        | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$                       | <u> </u> |  |          | $\vdash$               |  |
|                      | 119        | <b>—</b> | _        |          |          | $\vdash$                       |          |  |          | $\Box$                 |  |
|                      | 120<br>121 |          |          |          |          |                                |          |  |          | П                      |  |
|                      | 121        | Ш        |          |          |          |                                |          |  |          |                        |  |
|                      | 122        |          | L        |          |          | L                              |          |  |          |                        |  |
|                      | 123<br>124 |          | L        |          |          | <u> </u>                       | _        |  |          | Щ                      |  |
|                      | 124        |          | <u> </u> | <u> </u> | _        | <u> </u>                       | <u> </u> | _  |          | _                      |  |
|                      | 125<br>126 | $\vdash$ | $\vdash$ | $\vdash$ | H        | $\vdash$                       | ├-       | -  |          | Н                      |  |
| <u> </u>             | 127        | ┢        | -        | $\vdash$ | _        | $\vdash$                       | ┝        | $\vdash$   |          | $\vdash$               |  |
|                      | 128        | <u> </u> | -        |          |          | <u> </u>                       | $\vdash$ | <del>                                     </del> |          | $\vdash$               |  |
|                      | 128<br>129 |          |          |          | Т        | Г                              | Г        |  |          |                        |  |
|                      | 130        |          |          |          |          |                                |          |  |          |                        |  |
|                      | 131<br>132 |          |          |          |          |                                |          |  |          |                        |  |
|                      | 132        |          | <u> </u> |          |          |                                | L.       |  |          | Ш                      |  |
| $\vdash \vdash$      | 133<br>134 | H        | <u> </u> | _        | _        | $\vdash$                       | _        | _  | Щ        | Щ                      |  |
| $\vdash\vdash\vdash$ | 134        | -        | H        | -        | <u> </u> | $\vdash$                       | $\vdash$ | $\vdash$   | <u> </u> | $\vdash \dashv$        |  |
|                      | 136        | $\vdash$ | Η-       | $\vdash$ | -        | ├                              | H        | -  |          | $\dashv$               |  |
| М                    | 137        |          | П        | Н        | _        | $\vdash$                       | Т        |  |          | $\vdash \vdash$        |  |
|                      | 138        |          |          |          |          |                                |          |  |          | 口                      |  |
|                      | 139        |          |          |          |          |                                |          |  |          |                        |  |
| $oxed{oxed}$         | 140        |          |          |          |          | $oxedsymbol{oxedsymbol{oxed}}$ |          |  |          | 口                      |  |
| $\square$            | 141        |          | L        | _        | <u> </u> | L                              | L        | L  | <u> </u> | Щ                      |  |
| Ш                    | 142<br>143 | H        |          | -        | L        | <u> </u>                       | <u> </u> | <u> </u>   |          | $\vdash \dashv$        |  |
|                      | 144        | $\vdash$ | $\vdash$ | _        | $\vdash$ | $\vdash$                       | -        | ⊢  |          | $\vdash \vdash$        |  |
| ├─┤                  | 145        | -        |          | Н        | H        | $\vdash$                       | Н        | H  | $\vdash$ | $\vdash \vdash \vdash$ |  |
| $\vdash$             | 146        |          | -        |          | -        | -                              | Н        | Ι  |          | $\vdash$               |  |
|                      | 147        |          |          |          |          | Г                              |          |  |          |                        |  |
|                      | 148        |          |          |          |          |                                |          |  |          |                        |  |
|                      | 149        |          |          |          |          |                                |          |  |          |                        |  |
|                      | 150        |          |          |          |          |                                |          |  |          |                        |  |